Application No. 10/571,140 Amendment dated March 2, 2009 Reply to Office Action of May 13, 2008 Docket No.: 0038-0491PUS1

AMENDMENTS TO THE CLAIMS

1-6. (Canceled),

7. (Currently Amended) A method of driving an electromagnetic pump, the method

comprising:

conveying a fluid from a pump chamber formed inside a cylinder by housing a plunger

including a permanent magnet inside the cylinder;

passing a current through an aircore electromagnetic coil fitted around the cylinder, and

switching a direction of the current, to reciprocally move the plunger in the axial direction inside

the cylinder, and

applying a pulse voltage or flowing a pulse current including a period where a voltage or

current value is zero when the polarity of a driving voltage or a supplied current of the

electromagnetic coil is inverted,

wherein the pulse voltage or the pulse current flows so that a minute voltage pulse of

current at least 30% of a maximum voltage is applied or a minute current pulse at least 30% of a

maximum current flows before the periodan inverted maximum current flows for a minute time

period before the period where the voltage or current value is zero, when a polarity of the applied

current of the electromagnetic coil is inverted.

8. (Canceled)

DO NOT ENTER: /C.B./

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9. (Currently Amended) A method of driving an electromagnetic pump, the method

comprising:

conveying a fluid from a pump chamber formed inside a cylinder by housing a plunger

including a permanent magnet inside the cylinder;

passing a current through an aircore electromagnetic coil fitted around the cylinder, while

switching a direction of the current, to reciprocally move the plunger in the axial direction inside

the cylinder; and

applying a pulse voltage or flowing a pulse current so that flowing an offset voltage

current of no greater than 30% of a inverted maximum voltage is applied or an offset current of

no greater than 30% of a maximum current flows current when the a polarity of a driving voltage

ee-a supplied current of the electromagnetic coil is inverted.

10. (Currently Amended) The method of driving an electromagnetic pump according

to Claim 9, wherein the pulse voltage is applied or the pulse current flows so that before a puriod

where the offset voltage is applied or the offset current flows, a minute voltage pulse of at least

30% of the maximum voltage is applied or a minute current pulse of at least 30% of the

maximum current flowsbefore a period where the offset current flows, a minute current pulse at

least 30% of the maximum current flows.

DO NOT ENTER: /C.B./

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